

## **AMENDMENT TO THE CLAIMS**

### **Listing of Claims:**

**1. (Previously Presented)** A base station, which communicates with a radio terminal, comprising:

an adaptive antenna;

a receiving condition acquisition portion for acquiring a signal from the radio terminal concerning a quality of reception of said radio terminal; and

a directivity control portion for controlling the directivity of said adaptive antenna in response to the quality of reception of said radio terminal.

**2. (Previously Presented)** The base station according to claim 1, wherein said directivity control portion sets the directivity of said adaptive antenna to be non-directional until a connection request is received from said radio terminal, and controls the directivity of said adaptive antenna at a direction in response to the quality of reception of said radio terminal after receiving the connection request from said radio terminal.

**3. (Currently Amended)** A base station, which communicates with a radio terminal, comprising:

an adaptive antenna;

a receiving condition acquisition portion for acquiring a signal from the radio terminal concerning a quality of reception of said radio terminal which depends on a transmission direction of a radio wave of the adaptive antenna, while changing the transmission direction of the radio wave of the adaptive antenna; and

a directivity control portion for controlling the directivity of said adaptive antenna at the transmission direction of the radio wave corresponding a signal concerning the good quality of reception of said radio terminal among the acquired signals.

**4. (Previously Presented)** A base station, which communicates with a radio terminal, comprising:

an adaptive antenna;

a receiving condition acquisition portion for acquiring data rate control from the radio terminal which depends on a transmission direction of a radio wave of the adaptive antenna, while changing the transmission direction of the radio wave of the adaptive antenna; and

a directivity control portion for controlling the directivity of said adaptive antenna at the transmission direction of the radio wave corresponding to a good data rate control.